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RAW SEQUENCE LISTING

DATE: 09/01/2004

PATENT APPLICATION: US/10/787,442

TIME: 11:41:16

Input Set : N:\CrF3\RULE60\10787442.raw

Output Set: N:\CRF4\09012004\J787442.raw

1 <110> APPLICANT: Novak, Julia E.
 2 Presnell, Scott R.
 3 Sprecher, Cindy A.
 4 Foster, Donald C.
 5 Holly, Richard D.
 6 Gross, Jane A.
 7 Johnston, Janet V.
 8 Nelson, Andrew J.
 9 Dillon, Stacey R.
 10 Hammond, Angela K.

11 <120> TITLE OF INVENTION: NOVEL CYTOKINE ZALPHA11 LIGAND

12 <130> FILE REFERENCE: 99-16

13 <140> CURRENT APPLICATION NUMBER: US/10/787,442

14 <141> CURRENT FILING DATE: 2004-02-26

15 <150> PRIOR APPLICATION NUMBER: US/09/522,217

16 <151> PRIOR FILING DATE: 2000-03-09

17 <150> PRIOR APPLICATION NUMBER: US 60/123,547

18 <151> PRIOR FILING DATE: 1999-03-09

19 <150> PRIOR APPLICATION NUMBER: US 60/123,904

20 <151> PRIOR FILING DATE: 1999-03-11

21 <150> PRIOR APPLICATION NUMBER: US 60/142,013

22 <151> PRIOR FILING DATE: 1999-07-01

23 <160> NUMBER OF SEQ ID NOS: 115

24 <170> SOFTWARE: FastSEQ for Windows Version 3.0

26 <210> SEQ ID NO: 1

27 <211> LENGTH: 642

28 <212> TYPE: DNA

29 <213> ORGANISM: Homo sapiens

30 <220> FEATURE:

31 <221> NAME/KEY: CDS

32 <222> LOCATION: (47)...(532)

33 <400> SEQUENCE: 1

34 gctgaagtga aaacgagacc aaggtctagc tctactgttg gtactt atg aga tcc 55

35 Met Arg Ser

36 1

37 agt cct ggc aac atg gag agg att gtc atc tgt ctg atg gtc atc ttc 103

38 Ser Pro Gly Asn Met Glu Arg Ile Val Ile Cys Leu Met Val Ile Phe

39 5 10 15

40 ttg ggg aca ctg gtc cac aaa tca agc tcc caa ggt caa gat cgc cac 151

41 Leu Gly Thr Leu Val His Lys Ser Ser Ser Gln Gly Gln Asp Arg His

42 20 25 30 35

43 atg att aga atg cgt caa ctt ata gat att gtt gat cag ctg aaa aat 199

44 Met Ile Arg Met Arg Gln Leu Ile Asp Ile Val Asp Gln Leu Lys Asn



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45          40          45          50
46  tat gtg aat gac ttg gtc cct gaa ttt ctg cca gct cca gaa gat gta      247
47  Tyr Val Asn Asp Leu Val Pro Glu Phe Leu Pro Ala Pro Glu Asp Val
48          55          60          65
49  gag aca aac tgt gag tgg tca gct ttt tcc tgt ttt cag aag gcc caa      295
50  Glu Thr Asn Cys Glu Trp Ser Ala Phe Ser Cys Phe Gln Lys Ala Gln
51          70          75          80
52  cta aag tca gca aat aca gga aac aat gaa agg ata atc aat gta tca      343
53  Leu Lys Ser Ala Asn Thr Gly Asn Asn Glu Arg Ile Ile Asn Val Ser
54          85          90          95
55  att aaa aag ctg aag agg aaa cca cct tcc aca aat gca ggg aga aga      391
56  Ile Lys Lys Leu Lys Arg Lys Pro Pro Ser Thr Asn Ala Gly Arg Arg
57  100          105          110          115
58  cag aaa cac aga cta aca tgc cct tca tgt gat tct tat gag aaa aaa      439
59  Gln Lys His Arg Leu Thr Cys Pro Ser Cys Asp Ser Tyr Glu Lys Lys
60          120          125          130
61  cca ccc aaa gaa ttc cta gaa aga ttc aaa tca ctt ctc caa aag atg      487
62  Pro Pro Lys Glu Phe Leu Glu Arg Phe Lys Ser Leu Leu Gln Lys Met
63          135          140          145
64  att cat cag cat ctg tcc tct aga aca cac gga agt gaa gat tcc      532
65  Ile His Gln His Leu Ser Ser Arg Thr His Gly Ser Glu Asp Ser
66          150          155          160
67  tgaggatcta acttgacgtt ggacactatg ttacatactc taatatagta gtgaaagtca      592
68  tttctttgta ttccaagtgg aggagcccta ttaaattata taaagaaata      642
70 <210> SEQ ID NO: 2
71 <211> LENGTH: 162
72 <212> TYPE: PRT
73 <213> ORGANISM: Homo sapiens
74 <400> SEQUENCE: 2
75  Met Arg Ser Ser Pro Gly Asn Met Glu Arg Ile Val Ile Cys Leu Met
76  1          5          10          15
77  Val Ile Phe Leu Gly Thr Leu Val His Lys Ser Ser Ser Gln Gly Gln
78          20          25          30
79  Asp Arg His Met Ile Arg Met Arg Gln Leu Ile Asp Ile Val Asp Gln
80          35          40          45
81  Leu Lys Asn Tyr Val Asn Asp Leu Val Pro Glu Phe Leu Pro Ala Pro
82          50          55          60
83  Glu Asp Val Glu Thr Asn Cys Glu Trp Ser Ala Phe Ser Cys Phe Gln
84          65          70          75          80
85  Lys Ala Gln Leu Lys Ser Ala Asn Thr Gly Asn Asn Glu Arg Ile Ile
86          85          90          95
87  Asn Val Ser Ile Lys Lys Leu Lys Arg Lys Pro Pro Ser Thr Asn Ala
88          100          105          110
89  Gly Arg Arg Gln Lys His Arg Leu Thr Cys Pro Ser Cys Asp Ser Tyr
90          115          120          125
91  Glu Lys Lys Pro Pro Lys Glu Phe Leu Glu Arg Phe Lys Ser Leu Leu
92          130          135          140
93  Gln Lys Met Ile His Gln His Leu Ser Ser Arg Thr His Gly Ser Glu
94          145          150          155          160

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95      Asp Ser
97 <210> SEQ ID NO: 3
98 <211> LENGTH: 486
99 <212> TYPE: DNA
100 <213> ORGANISM: Artificial Sequence
101 <220> FEATURE:
102 <223> OTHER INFORMATION: Degenerate polynucleotide sequence for human
103      zalphall ligand
104 <220> FEATURE:
105 <221> NAME/KEY: misc_feature
106 <222> LOCATION: (1)...(486)
107 <223> OTHER INFORMATION: n = A,T,C or G
108 <400> SEQUENCE: 3
-> 109      atgmgnwsnw snccnggnaa yatggarmgn athgtnatht gyytnatggt nathttyytn      60
110      ggnacnytn gncayaarws nwsnwsncar ggncargaym gncayatgat hmgtnatgmgn      120
111      carytnathg ayathgtnga ycarytnaar aaytaygtna aygayytngt nccngartty      180
112      ytnccngcnc cngargaygt ngaracnaay tgygartggw sngcnttyws ntgyttycar      240
113      aargncary tnaarwsngc naayacnggn aayaaygarm gnathathaa ygtwnsnath      300
114      aaraarytna armgnaarcc nccnwsnacd aaygcnggnm gnmgnccaraa rcaymgnytn      360
115      acntgyccnw sntgygayws ntaygaraar aarccnccna argarttyyt ngarmgntty      420
116      aarwsnytny tncaraarat gathcaycar cayytnwsnw snmgnacnca yggwnsngar      480
117      gaywsn      486
119 <210> SEQ ID NO: 4
120 <211> LENGTH: 535
121 <212> TYPE: DNA
122 <213> ORGANISM: Mus musculus
123 <220> FEATURE:
124 <221> NAME/KEY: source
125 <222> LOCATION: (0)...(0)
126 <223> OTHER INFORMATION: EST1483966 ; GenBank Acc #AA764063
127 <400> SEQUENCE: 4
128      taaacatgta tcatataagg atatgtcata ataaggatta atattatata attataaata      60
129      atttataata cttataatat cattgtttgg ttcactaata aatctatgga tacatgggtca      120
130      aaatggaaat gaatatTTTg ccaattatta atccccaaag tcattgaaaa taagcataac      180
131      cattctactg acttggttaga ctctaaacta acataaaata cattttcaga aataaattca      240
132      accgatctta cttttacatc ttgtggagct gatagaagtt caggatccta agaaaattaa      300
133      ccaaagagta ttagttctga gttgggtgata caagtcaaaa ggctcctttt gcattaatta      360
134      aaaaaatatt atttaaattg cattgtgaca aacatggcct taccaagtca ttttcataga      420
135      ttttcagctg ttcaacaatg tcaataaggt gacgaagtct aatcaggagg cgatctggcc      480
136      cttgggggct tgatttatgg gccactgtcc ccaagaagat gactaccaga cagac      535
138 <210> SEQ ID NO: 5
139 <211> LENGTH: 33
140 <212> TYPE: DNA
141 <213> ORGANISM: Artificial Sequence
142 <220> FEATURE:
143 <223> OTHER INFORMATION: Oligonucleotide primer ZC17212
144 <400> SEQUENCE: 5
145      ggggaattcg aagccatgcc ctcttgggcc ctc      33
147 <210> SEQ ID NO: 6

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148 <211> LENGTH: 30
149 <212> TYPE: DNA
150 <213> ORGANISM: Artificial Sequence
151 <220> FEATURE:
152 <223> OTHER INFORMATION: Oligonucleotide primer ZC19914
153 <400> SEQUENCE: 6
154      caatggatgg gtcttttagca gcagtaggcc                      30
156 <210> SEQ ID NO: 7
157 <211> LENGTH: 1614
158 <212> TYPE: DNA
159 <213> ORGANISM: Homo sapiens
160 <400> SEQUENCE: 7
161      atgccgcgtg gctgggcccgc ccccttgctc ctgctgctgc tccagggagg ctggggctgc          60
162      cccgacctcg tctgctacac cgattacctc cagacgggtca tctgcatcct ggaaatgtgg          120
163      aacctccacc ccagcacgct cacccttacc tggcaagacc agtatgaaga gctgaaggac          180
164      gaggccacct cctgcagcct ccacaggctc gcccacaatg ccacgcctgc cacctacacc          240
165      tgccacatgg atgtattcca cttcatggcc gacgacattt tcagtgtcaa catcacagac          300
166      cagtctggca actactccca ggagtgtggc agctttctcc tggctgagag catcaagccg          360
167      gctccccctt tcaacgtgac tgtgaccttc tcaggacagt ataatatctc ctggcgctca          420
168      gattacgaag accctgcctt ctacatgctg aagggaagc ttcagtatga gctgcagtac          480
169      aggaaccggg gagaccctg ggctgtgagt ccgaggagaa agctgatctc agtggactca          540
170      agaagtgtct ccctcctccc cctggagttc cgcaaagact cgagctatga gctgcagggtg          600
171      cgggcagggc ccatgcctgg ctccctctac caggggacct ggagtgaatg gagtgacctg          660
172      gtcattcttc agaccagtc agaggagtta aagggaaggct ggaacctca cctgctgctt          720
173      ctccctctgc ttgtcatagt cttcattcct gccttctgga gcctgaagac ccatccattg          780
174      tggaggctat ggaagaagat atgggcccgc cccagccctg agcggttctt catgcccctg          840
175      tacaagggtc gcagcggaga cttcaagaaa tgggtgggtg cacccttcac tggctccagc          900
176      ctggagctgg gaccctggag cccagagggtg ccctccaccc tggagggtga cagctgccac          960
177      ccaccacgga gcccggccaa gaggtgcag ctcaaggagc tacaagaacc agcagagctg          1020
178      gtggagtctg acggtgtgcc caagcccagc ttctggccga cagcccagaa ctcggggggc          1080
179      tcagcttaca gtgaggagag ggatcgcca tacggcctgg tgtccattga cacagtgact          1140
180      gtgctagatg cagagggggc atgcacctgg ccctgcagct gtgaggatga cggctaccca          1200
181      gccctggacc tggatgctgg cctggagccc agcccaggcc tagaggaccc actcttggtg          1260
182      gcagggacca cagtctgtc ctgtggctgt gtctcagctg gcagccctgg gctaggaggg          1320
183      cccctgggaa gcctcctgga cagactaaag ccacccttg cagatgggga ggactgggct          1380
184      gggggactgc cctggggtgg ccggtcacct ggagggtct cagagagtga ggcgggctca          1440
185      cccctggccg gcctggatat ggacacgtt gacagtggct ttgtgggctc tgactgcagc          1500
186      agccctgtgg agtgtgactt caccagcccc ggggacgaag gacccccccg gagctacctc          1560
187      cgccagtggg tggtcattcc tccgccactt tcgagccctg gacccagggc cagc          1614
189 <210> SEQ ID NO: 8
190 <211> LENGTH: 30
191 <212> TYPE: DNA
192 <213> ORGANISM: Artificial Sequence
193 <220> FEATURE:
194 <223> OTHER INFORMATION: Oligonucleotide primer ZC19913
195 <400> SEQUENCE: 8
196      ggccactgct tgctaaagac ccatccattg                      30
198 <210> SEQ ID NO: 9
199 <211> LENGTH: 33

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200 <212> TYPE: DNA
 201 <213> ORGANISM: Artificial Sequence
 202 <220> FEATURE:
 203 <223> OTHER INFORMATION: Oligonucleotide primer ZC20097
 204 <400> SEQUENCE: 9
 205 acatctagat tagctggcct ggggtccagg cgt 33
 207 <210> SEQ ID NO: 10
 208 <211> LENGTH: 21
 209 <212> TYPE: DNA
 210 <213> ORGANISM: Artificial Sequence
 211 <220> FEATURE:
 212 <223> OTHER INFORMATION: Oligonucleotide primer ZC12700
 213 <400> SEQUENCE: 10
 214 ggaggtctat ataagcagag c 21
 216 <210> SEQ ID NO: 11
 217 <211> LENGTH: 21
 218 <212> TYPE: DNA
 219 <213> ORGANISM: Artificial Sequence
 220 <220> FEATURE:
 221 <223> OTHER INFORMATION: Oligonucleotide primer ZC5020
 222 <400> SEQUENCE: 11
 223 cactggagtg gcaacttcca g 21
 225 <210> SEQ ID NO: 12
 226 <211> LENGTH: 20
 227 <212> TYPE: DNA
 228 <213> ORGANISM: Artificial Sequence
 229 <220> FEATURE:
 230 <223> OTHER INFORMATION: Oligonucleotide primer ZC6675
 231 <400> SEQUENCE: 12
 232 gtggatgccg aacccagtcc 20
 234 <210> SEQ ID NO: 13
 235 <211> LENGTH: 21
 236 <212> TYPE: DNA
 237 <213> ORGANISM: Artificial Sequence
 238 <220> FEATURE:
 239 <223> OTHER INFORMATION: Oligonucleotide primer ZC7727
 240 <400> SEQUENCE: 13
 241 tgttcacagc tacctgggct c 21
 243 <210> SEQ ID NO: 14
 244 <211> LENGTH: 26
 245 <212> TYPE: DNA
 246 <213> ORGANISM: Artificial Sequence
 247 <220> FEATURE:
 248 <223> OTHER INFORMATION: Oligonucleotide primer ZC8290
 249 <400> SEQUENCE: 14
 250 ccaccgagac tgcttggatc accttg 26
 252 <210> SEQ ID NO: 15
 253 <211> LENGTH: 20
 254 <212> TYPE: DNA

RAW SEQUENCE LISTING ERROR SUMMARY
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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:3; N Pos. 6,9,12,15,18,30,36,45,51,60,63,66,69,72,81,84,87,93,102,114
Seq#:3; N Pos. 120,126,138,147,159,168,171,174,183,186,189,192,201,207,222
Seq#:3; N Pos. 225,231,246,252,258,261,267,270,282,294,297,309,315,321,324
Seq#:3; N Pos. 327,330,336,339,342,345,357,360,363,369,372,381,396,399,411
Seq#:3; N Pos. 417,426,429,432,456,459,462,465,468,474,477,486
Seq#:108; N Pos. 33

VERIFICATION SUMMARY

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Input Set : N:\Crf3\RULE60\10787442.raw

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L:109 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:0

M:341 Repeated in SeqNo=3

L:1805 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:108 after pos.:0